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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,217	07/30/2003	Nathaniel T. Becker	GC515-2-US-C1	8779
7590 05/02/2007 JEFFERY D. FRAZIER GENENCOR INTERNATIONAL, INC.			EXAMINER	
			NAFF, DAVID M	
925 PAGE MILL ROAD PALO ALTO, CA 94304			ART UNIT	PAPER NUMBER
TALOADIO,	ON 74304		1657	
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			MAIL DATE	DELIVERY MODE
			05/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Ę H	Application No.	Applicant(s)			
Office Action Commence	10/630,217	BECKER ET AL.			
Office Action Summary	Examiner	Art Unit			
	David M. Naff	1657			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was a Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on <u>21 August 2006 and 13 February 2007</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
4) Claim(s) 12-31 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 12-31 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Idrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	,				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/21/06. S. Patent and Trademark Office	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Amendments of 8/21/06 and 2/13/07 amended claims 29-31.

Claims examined on the merits are 12-31, which are all claims in the application.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 112

Claims 12-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In the last line of claim 12, line 4 of claim 25, and line 5 of claim 29, "moderate or high water activity" is uncertain as to meaning and scope. Being "moderate" and "high" is relative and subjective.

Response to Arguments

The definition in the specification cannot limit the recitation in the claims, which can have a different meaning than in the specification.

Claim Rejections - 35 USC § 102

Claims 12-16 and 18-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Herdeman (4,707,287).

The claims are drawn to a granule having a protein core and a hydrated barrier material coating over the protein core, and the granule having a moderate or high water activity.

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Herdeman discloses a granule having a enzyme core (col 5, line 5) that can be ALCALASE (col 6, line 10), a protective coating of alkaline buffer salt around the core (col 2, lines 15-35, and col 3, lines 43-47), a water-soluble nonionic waxy overcoating that can be polyethylene glycol, and a coating of acetate phthalate resin (col 2, lines 50-60, and col 7, lines 15-17). The granule has a moisture content of 3-10% (col 7, lines 10-11).

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The granule of Herdeman is the same as presently claimed. When the granule of Herdeman has 3-10% water, the barrier will be hydrated, and the granule will have a water activity of moderate or high, or within ranges of dependent claims.

Response to Arguments

There is inadequate evidence to establish that the claimed granule is different and has a different activity, and that the granule of Herdeman does not have the claimed water activity. The granule of Herdeman inherently has a hydrated barrier coated.

Claim Rejections - 35 USC § 103

Claims 17 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herdeman in view of Painter et al (5,292,446) and Dychdala et al (3,793,216).

The claims require a hydrated inorganic salt as the barrier selected from salts that are a heptahydrate, dehydrate or tetrahydrate.

Painter et al disclose using sodium citrate dehydrate (col 9, lines 25 15-16) as an alkaline salt in a washing composition.

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Dychdala et al disclose using different hydrated inorganic salts including sodium phosphate dibasic heptahydrate (col 3, lines 63-64) to provide a water content of 3-13% (col 91 line 29).

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It would have been obvious to use as the alkaline buffer salt of Herdeman a hydrated alkaline salt as taught by Painter et al and Dychdala et al to maintain the moisture content 3-10% desired by Herdeman as suggested by Dychdala et al using a hydrated salt to maintain a moisture content of 3-13%.

Response to Arguments

As set forth above, there is inadequate evidence that the granule of Herdeman does not have the claimed water activity. The references are applied together and must be considered together as a whole.

Claim Rejections - 35 USC § 103

Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over the references as applied to claims 17 and 27 above, and further in view of Arnold et al (5,324,649).

The claim requires an enzyme core to comprise a seed particle coated with an enzyme.

Arnold et al disclose producing a granule containing an enzyme coated on a core particle (col 2, lines 13-39).

It would have been obvious to provide the enzyme core of Herdeman by coating the enzyme on a particle as suggested by Arnold et al, when using a hydrated salt as the barrier coating on the enzyme core as set forth above.

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Response to Arguments

The type of response set forth above also applies to this rejection.

Claim Rejections - 35 USC § 103

Claims 29-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herdeman.

The claims are drawn to methods of preparing the granule.

The method for granule preparation disclosed by Herdeman is the same as presently claimed except for temperatures required by the claims. Selecting preferred optimum temperatures for preparing the granule of Herdeman would have required only limited routine experimentation and been obvious. A granule produced as disclosed by Herdeman will inherently have a higher enzyme activity than a test granule as required by claims 29 and 31.

Response to Arguments

The type of response set forth above also applies to this rejection.

Double Patenting

Claims 12-31 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of U.S. Patent No. 6,602,841 Bl. Although the conflicting claims are not identical, they are not patentably distinct from each other because the presently claimed granule having a protein core and hydrated barrier and method for preparation thereof encompasses the granule having a protein core and hydrated barrier and method for

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preparation thereof of the patent claims, and would have been obvious from the patent claims.

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Response to Arguments

Applicants state that this rejection will be addressed when claims are found allowable.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Naff whose telephone number is 571-272-0920. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached on 571-272-0925.

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The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David M. Naff Primary Examiner Art Unit 1657 Page 7

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DMN 4/30/07